

KHMELEVSKIY, I.K.

Why we cannot agree with G.V. Pobedimskii's suggestion. Tekst. prom.
18 no.8:9 Ag '58. (MIRA 11:10)
(Textile industry)

KHMELEVSKIY, I.K.

Supply the demand for children's clothing. Shvein.prom. no.3:
1-3 My-Je '59. (MIRA 12:9)

1. Nachal'nik oddela legkoy promyshlennosti TSentral'nogo statisti-
cheskogo upravleniya SSSR.
(Children's clothing)

KHMELEVSKIY, I.K.

Using to the full extent the width of looms. Tekst. prom. 19
no.5:4-6 My '59. (MIRA 12:10)

1. Nachal'nik otdela legkey promyshlennosti Tsentral'nogo statisti-
cheskogo upravleniya SSSR.
(Textile fabrics--Standards)

KHMELEVSKIY, I.K.

Let's work better than ever and with even greater efficiency.
Tekst.prom. 22 no.11:1-4 N '62. (MIRA, 15:11)

1. Glavnyy spetsialist otдела ekonomiki i razvitiya legkoy
promyshlennosti Gosudarstvennogo ekonomicheskogo soveta SSSR.
(Textile industry)

KHMELEVSKIY, I.I. (Moskva)

Hamilton's principle for nonholonomic systems. Prikl. mat. i mekh. 24
no.5:777-780 S - O '60. (MIRA 14:3)

(Mechanics)

S/025/000/003/003/012
A166/A127

AUTHOR: Khmelevskiy, I. I.

TITLE: The second birth of a theory

PERIODICAL: Nauka i zhizn', no. 3, 1961, 12-15

TEXT: The author, a former student of the late Corresponding Member of the AS USSR, Nikolay Gur'yevich Chetayev explains the theory of stability as developed by the Russian Academician Aleksandr Mikhaylovich Lyapunov (1857-1918) and reshaped by N. G. Chetayev (1902-1959) whose works in this field have been awarded the Lenin Prize post-mortem in 1960. Lyapunov's theories and principles have been almost unknown until Chetayev picked them up and applied them to the solution of modern problems of applied mechanics such as the stability of an aircraft in flight, the design and manufacture of super-precision instruments (gyroscopes, automatic control components), and problems of ballistics. Chetayev formulated the principle that all phenomena, factually oc- ✓

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The second birth of a theory

S/025/61/000/003/003/012
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curing in nature are essentially stable. Furthermore, he established a favorable relationship between the principles of mechanics and wave optics in the wake of the wave theories of light as developed by Maxwell et al. N. G. Chetayev found formulas and an equation for stable motions of conservative systems. Apparently, this equation shows "wave" type characteristics, leading to the analogy between mechanics and wave optics:

Optics: $\frac{1}{v^2} \cdot \frac{\partial^2 E}{\partial t^2} = \Delta E$ Mechanics: $\frac{2(U + h)}{h^2} = \frac{\partial^2 \Phi}{\partial t^2} = \Delta \Phi$

In nature, of course, there is no motion following an exact trajectory. There are always minor excitation forces causing small deviations, deflections, thus creating a minor wave zone between the stable motion and the secondary excitation forces. The further development of the new mechanical-optical wave analogy was interrupted by Chetayev's death. There are 7 figures.

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36029

BR

S/040/62/026/002/001/025
D299/D301

24.4/00

AUTHOR: Khmelevskyy, I.L. (Moscow)

TITLE: On a Chaplygin problem

PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 2,
1962, 201 - 211

TEXT: An attempt is made to extend Chaplygin's theorem about the function $N(q, q_1)$ ("the reducing multiplier"), to a broad class of nonholonomic systems and to the space of all Lagrangian variables. The meaning of Chaplygin's theorem is twofold: 1) It establishes that the actual motions of certain nonholonomic systems in coordinate space q, q_1 possess definite extremal properties, and 2) it permits the use of the Hamilton-Jacobi method for determining these motions. A material system is considered with Lagrangian coordinates q_1, \dots, q_n , and nonholonomic constraints:

$$\omega_\beta = q'_\beta + \sum_{r=1}^{n-m} a_{\beta, m+r} q'_{m+r} + a_\beta = 0 \quad (\beta = 1, \dots, m) \quad (1.1)$$

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D299/D301

On a Chaplygin problem

where the coefficients a depend on all the q_n and t . Let

$$F = \frac{1}{2} \sum_{s,k=1}^n b_{sk} q'_s q'_k + \sum_{s=1}^n c_s q'_s + P, \quad (1.2)$$

where b , c , and P are functions of the coordinates and time. Boundary conditions and coefficients of F are sought, for which the set of actual motions of the system coincides with the set of extremals of the conditional variational problem

$$\delta \int_{t_0}^{t_1} F dt = 0 \text{ for } \omega_\beta = 0. \quad (1.3)$$

The boundary conditions have to meet the following requirement: The Lagrange multipliers λ_β , determined from the first integrals of the extremal equations, should have same integration constants k_γ on all extremals. It is noted that the boundary conditions of Hamil- ✓

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On a Chaplygin problem

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ton's principle do not meet this requirement. The sought-for boundary conditions are

$$q_s(t_0) = q_{s0}, \quad q_{m+r}(t_1) = q_{m+r,1} \quad (s = 1, \dots, n; r = 1, \dots, n-m). \quad (2.7)$$

The coefficients of the function F are determined by the equivalence conditions for equations

$$q_k'' = R_k(q, q', t) \quad (k = 1, \dots, n) \quad (2.15)$$

and

$$q_k'' = \Phi_k(q, q', t) \quad (k = 1, \dots, n). \quad (3.1)$$

These are

$$R_{ko} = \Phi_{ko}, \quad R_{k,m+r} = \Phi_{k,m+r}, \quad R_{k,m+r,m+p} = \Phi_{k,m+r,m+p} \quad (k = 1, \dots, n; r, p = 1, \dots, n-m), \quad (3.2)$$

$$R_{k,1+r,1+p,1+\tau} = 0 \quad (k = 1, \dots, n; r, p, \tau = 1, \dots, n-1) \quad (3.3)$$

The necessary and sufficient condition for the existence of variational problem (1.3) (for the equations of motion of the nonholono-

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On a Chaplygin problem

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D299/D301

mic system), is the existence of a solution to the equivalence equations ((3.2), (3.3)). A theorem states that the actual motions of nonholonomic systems can have (in $\{q_s\}$ -space), definite extremal properties, as compared to other allowed motions; the theorem also states for precisely which variational problem, the actual motions are extremals. If the equivalence equations allow a particular solution $b_{\beta k} = b_{k\beta} = c_{\beta} = 0$ ($\beta = 1, \dots, m; k = 1, \dots, n$), then F (Eq. (1.2)) is only a function of independent q_{m+1}', \dots, q_n' . To such a function F , corresponds a variational problem describing the motion of a nonholonomic system in $\{q_{m+r}\}$ -space. If F is known, it is possible to use, for the solution of the last $(n-m)$ equations of motion of the nonholonomic system, all the integration methods for holonomic systems, in particular -- the Hamilton-Jacobi method. This consists of the generalization of the above-mentioned theorem of Chaplygin. The latter is reformulated, and related to an isoperimetrical problem which is replaced by the problem of the unconditional extremum of the integral:

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On a Chaplygin problem

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$$\int_{t_0}^{t_1} F dt, \quad F = (T^{**} + U + h)N \quad (4.8)$$

where h is the total energy of the actual motion. Hence Chaplygin's results can be obtained by the method of equivalence equations, and are applicable to conservative systems and to those cases for which the equivalence equations allow a function F (4.8), which does not depend on the velocities q'_β . The following theorem is proved: In order that the integrand function F of the conditional variational problem (1.3), should be independent of the constraint equations, it is necessary and sufficient that the latter be holonomic. From the theorem it follows that the variational principles which apply to holonomic systems are invalid for nonholonomic systems. Two examples are given, one of which deals with the motion, by inertia, of an automobile. There are 3 Soviet-bloc references.

SUBMITTED: December 21, 1961

Card 5/5

L 11600-63

EWI(1)/BDS AFFTC/ASD

ACCESSION NR: AP3000902

S/0179/63/000/002/0199/0200

82
57

AUTHOR: Khmelevskiy, I. I.

TITLE: Conference of schools of higher education on the applied theory of sta-
bility of motion and analytical mechanics [Held in Kazan from 6 to 8 December
1962] AI

SOURCE: AN SSSR. Izv. Otd. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 2,
1962, 199-200

TOPIC TAGS: motion-stability theory, analytical mechanics, gyroscope, gravita-
tional field

ABSTRACT: The conference was held 6-8 December 1962 and was sponsored by the
Kazanskiy aviatsionnyy institut (Kazan' Aviation Institute). The 13 papers on
analytical mechanics presented included Construction of groups of possible dis-
placements, M. Sh. Aminov; Generalized cyclic displacements for a particular
motion of a gyroscope in gimbal suspension, A. A. Bogoyavlenskiy; Rotation of
a satellite orbit plane, A. I. Lar'ye; Generalized problem of two stationary
centers, Ye. P. Aksenov, Ye. A. Grebennikov, and V. G. Demin; Integrating the
equations of motion of a system of free mass points by the separation-of-variables

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method, M. S. Yarov-Yarovoy; Motion of a solid body satisfying Appel's rot conditions, L. N. Sretenskiy; Geometric interpretation of motion of a heavy solid body around a fixed point, P. V. Kharlamov; Canonic equations of a rank greater than zero, I. S. Arzhanykh; and Conditions for use of a method of the Hamilton-Jacobi type for integrating equations of motion of nonholonomic conservative systems, I. S. Arzhanykh and Sh. A. Gumerov. The 38 papers on stability of motion included Periodic limited solutions of linear differential equations, N. P. Yerugin; Asymptotic methods in problems of satellite dynamics, N. N. Moiseyeva; Stability of steady-state motion of a solid body with a liquid-filled cavity, V. V. Rumyantsev; Problem of a minimum in the problem of stability of equilibrium and permanent rotations of a solid body with a cavity partially filled with liquid, G. K. Pozharitskiy; Conditions of stability in critical cases, V. A. Pliss; Steady-state motion of a solid body and its stability in a central gravitational field, P. A. Kuz'min; Theory of stability of motion, V. V. Matrosov; Stability of a certain motion of solid bodies with gyroscope, V. I. Skimmel; Asymptotic stability of stochastic differential equations, I. Ya. Kats; Stability of solutions of a stochastic system, E. A. Lidskiy; Analytical design theory of controllers, E. G. Al'brekht; Problem on uniform asymptotic stability, A. K. Persidskiy; Passive stabilization of a satellite in gravitational field, D. Ye. Okhotsimskiy and V. A. Sarychev; Motion of a satellite relative to the

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center of mass, V. V. Beletskiy; Problem of absolute stability of controlled systems in the light of works by V. M. Popov (Romania), M. A. Aizerman and F. R. Gantmakher; Vibration of a solid body about the center of mass, V. O. Kononenko; Stability of vibration of self-contained systems with multiple roots of the principal amplitude equations, A. P. Proskuryakov; and Stability of periodic solutions of non-self-contained quasilinear systems with one degree of freedom in the case of a double root of the principal amplitude equation, G. V. Plotinkova.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: CG

NO REF SOV: 000

OTHER: 000

ch/ar
Card 3/3

BLOKH, Z.Sh.; LEVINA, N.S.; KHEMELEVSKIY, I.L., otv. red.; REKIS,
L.Ye., red.

[Handbook for carrying-out tests in theoretical mechanics
for second year students of technical departments] Posobie
k vypolneniiu kontrol'nykh rabot po teoreticheskoi mekha-
nike dlia studentov II kursa tekhnicheskikh fakul'tetov.
Moskva, Redaktsionno-izdatel'skii otdel VZEIS, 1963. 139 p.
(MIRA 17:3)

GRISHCHENKO, A.Z.; TARASENKO, A.V.; KHMELEVSKIY, I.N.

Order apparatus for the control of the xanthation process. Khim.,
volok. no.1:17-18 '62. (MIRA 18:4)

1. Kiyevskiy institut avtomatiki Gosplana UkrSSR.

TARASENKO, A.V.; KHMELEVSKIY, I.N.; LYAPUNOVA, A.I.

Device for determining the completion of the reaction of sulfitization.
Khim. volok. no.1:18-20 '62. (MIRA 18:4)

1. Kiyevskiy institut avtomatiki Gosplana UkrSSR.

KHMELEVSKIY, L.

From Moscow to Volgograd. Za rul. 21 no.5:30 My '63.

(MIRA 16:9)

1. Chlen seksii avtoturizma Vsesoyuznogo tsentral'nogo soveta
professional'nykh soyuzov.

(Motor vehicles--Touring)

KHMELEVSKIY, M.M.

Let's fulfill the seven-year plan ahead of time. Transp.
stroil. 9 no.9:4-5 8 '59. (MIRA 13:2)
(Hydraulic engineering)

KHMELEVSKIY, M.M., brigadir kompleksnoy brigady kommunisticheskogo truda

We turn out well-done meetings. Transp. stroi. 12 no.4:4-5
Ap '62. (MIRA 15:5)

1. Trest Chernomorgidrostroy.
(Docks)

KHMELEVSKIY, M.V.

GRABCHENKO, I.M., professor (Vinnitsa, ul. Lenina, d. 60, kv. 8); LITVINOV,
V.F.; KHMELEVSKIY, M.V.

Treating gastric and duodenal ulcers complicated by profuse
hemorrhage. Nov.khir.arkh. no.2:26-28 Mr-Apr '57. (MLRA 10:8)

1. Kafedra fakul'tetskoy khirurgii (sav. - prof. I.M.Grabchenko)
Vinnitskogo meditsinskogo instituta
(PEPTIC ULCER) (HEMORRHAGE)

KHMELEVSKIY, N.A.

Introducing the R337 digital percentage bridge. Biul tekhn.-
ekon. inform. Gos. nauch.-issl. inst. nauch i tekhn. inform.
18 no. 12:38-39 D '65. (MIRA 19:1)

BORODIN, I.A., doktor ekon.nauk, prof., red.; KIMELEVSKIY, N.N., red.;
UL'YANOVA, O.G., tekhn. red.

[Utilization of agricultural manpower in the U.S.S.R.] Is-
pol'zovanie trudovykh resursov v sel'skom khoziaistve SSSR.
Moskva, Izd-vo "Nauka," 1964. 275 p. (MIRA 17:3)

1. Institut ekonomiki AN SSSR (for Borodin).

KHMELEVSKIY, Nikolay Nikolayevich; ZAVERNYAYEVA, L.V., red.;
GERASIMOVA, Ye.S., tekhn. red.

[Method for the utilization analysis of capital assets on
collective farms] Metodika analiza ispol'zovaniia osnov-
nykh fondov v kolkhozakh. Moskva, Izd-vo "Ekonomika," 1964.
133 p. (MIRA 17:3)

SUSLOV, Ivan Fedorovich: KHEMELEVSKIY, N.N.

[Process of reproduction on collective farms] Protsess
vosproizvodstva v kolkhozakh. Moskva, Vysshaya shkola,
1962. 103 p. (MIRA 16:8)
(Agriculture, Cooperative)

KHMELEVSKIY, P.N., elektronekhanik

Our suggestions. Avtom. telem. i svyaz' 4 no. 12:24 D '60.
(MIRA 14:1)

1. Orenburgskaya distantiya signalizatsii i svyazi Kuybyshevskoy
dorogi.

(Diesel locomotives--Communication systems)

KHMELEVSKIY, P.N., elektromekhanik

The operational reliability of the microtelephone valve has been increased, Avtom., telem. i sviaz' 8 no.8:33-34 Ag '64.

(MIRA 17:10)

1. Orenburgskaya distantniya Yuzhno-Ural'skoy dorogi.

KHMELEVSKIY, S.A.

KHMELEVSKIY, S.A. --"High-Speed Milling of Threads. " Cand Tech Sci
Moscow Automotive Mechanics Inst, 15 Jan 54. (Vechernyaya Moskva 6 Jan 54)

SO: Sum 168, 22 July 1954

SOV/117-58-11-23/36

AUTHORS: Khmalovskiy, S.A., Candidate of Technical Sciences, Moysik, M.R., Kopychev, A.M., Engineer

TITLE: The Machining of Steel by Mineral-Ceramic Cutters (Obtochka stali mineralokeramicheskimi reztsami)

PERIODICAL: Mashinostroitel', 1958, Nr 11, pp 29 - 32 (USSR)

ABSTRACT: Mineral-ceramic instruments are widely used in machine-building. The Moskovskiy kombinat tverdykh splavov (Moscow Combine of Hard Alloys) produces blades of type TsM-332 for these instruments. A mechanical fastening of the blades is more expedient than welding. Several types of cutters have been tested (Figure 1 - 3). The cutter type III (Figure 3), in which the blade is fastened to the butt, has the best practical properties. At the Dnepropetrovskiy zavod metallurgicheskogo oborudovaniya DZMO (Dnepropetrovsk Plant of Metallurgical Equipment DZMO), cutters with mineral-ceramic blades are used on a broad scale. Blades of type TsM-332 are better than blades Tl5K6 made of alloy. After 20 sec of work, the blades Tl5K6 showed a wear of 0.2 mm, whereas blades TsM-332 reached this value only after 2.9 min. The blades TsM-332 have a bending resistance of only 30-40 kg/mm², so that the

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The Machining of Steel by Mineral-Ceramic Cutters

feeding speed is only 0.6-0.8 mm per revolution. Cutting depth has been increased to 1-5 mm and experiments are being made to attain a depth of 10 mm. During work at low values of cutting depth, the wear on the cutting part of the instrument causes a low machining precision. The life of the cutting blades is increased by coating them with copper. An apparatus for graphitization is shown in Figure 5. There are 4 diagrams and 1 graph.

1. Steel---Machining
2. Cutting tools---Materials
3. Cutting tools---Design
4. Cutting tools---Performance
5. Ceramic materials---Applications

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14000

27535
S/123/61/000/014/023/045
A004/A101

AUTHOR: Khmelevskiy, S.A.

TITLE: High-efficiency metal cutting with mineral-ceramic tools

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no.14, 1961, 26, abstract
14B167 ("Tr. Dnepropetr. khim. tekhnol. in-t", 1960, no. 10, 101-112)

TEXT: The author presents the results of testing tools fitted with T15K6 sintered carbides and UM-332 (TaM-332) mineral-ceramics. Axle steel bars 120 mm in diameter were turned as test specimens. It was found that the turning of big-size steel parts by ceramic tools makes the productivity, as to machine time, to increase by 200% and more. The superiority of ceramic tools shows particularly in the zone of relatively high cutting speeds ($v \geq 250$ m/min). Tools with mechanically fastened bits showed a steady work during semi-finish operations with depth of cut of 2 - 3 mm and a feed of 0.65 mm/rev. A further increase of the feed leads to higher chipping and destruction of the tool bits. During finish turning with low depth of cut (less than 0.05 mm) a crumbling of the cutting edge can be observed which results in a premature wear of the tools. Cera-

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High-efficiency metal cutting ...

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A004/A101

mic tools with rigid face-end arrangement of no. 225 tool bits ensure a high efficiency during the machining of the skin of centrifugal castings. The author presents an example of machining the skin of cast iron sleeves 140 mm in diameter at a speed of $v = 338$ m/min, a feed of $s = 0.65$ mm/rev and a depth of $t = 8$ mm. There are 12 figures and 5 tables.

I. Briskman

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[Abstracter's note: Complete translation]

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SOLOGUB, Nikolay Avramovich, inzh.; IL'IN, Boris Nikolayevich, kand.
tekhn. nauk, dotsent; IPATOV, Konstantin Aleksandrovich, inzh.;
MOYSIK, M.R., kand. tekhn. nauk, retsenzent; TIRANSKAYA, S.M.,
kand. tekhn. nauk, retsenzent; KHMELEVSKIY, S.A., kand. tekhn.
nauk, retsenzent; PREYS, G.A., kand. tekhn. nauk, dots., red.;
FURER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Laboratory research on the technology of metals] Laborator-
nye raboty po tekhnologii metallov. Moskva, Mashgiz, 1961. 294 p.
(Metallurgical research) (Metalwork--Testing) (MIRA 15:2)

REZNIKOV, A.N.; KHMELEVSKIY, S.A.; KACHER, V.A.

A useful seminar. Mashinostroitel' no.3:44 Mr '61.
(Technical education)

(MIRA 14:3)

KHMELEVSKIY, V., insh.

Using ornamental concretes in making facing materials. Stroil. mat.
4 no.9:36-37 S '58. (MIRA 11:10)
(Concrete)

KRESTOV, M.A.; DOBRYAKOVA, L.I.; KOSHKIN, V.G.; YEVDOKIMOV, A.A.;
IVANOVA, V.V.; KHMELEVSKIY, V.A.; KOSTOCHKINA, T.V.; PFLAUMER,
O.E., kand.tekhn.nauk, nauchnyy red.; SEVORTSOVA, I.P., red.
izd-vo; TEMKINA, Ye.L., tekhn.red.

[Finishing large panels and blocks using colored concretes]
Otdelka krupnykh panelei i blokov s primeneniem tsvetnykh beto-
nov. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.
materialam, 1959. 87 p. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroi-
tel'nykh materialov. 2. Institut novykh stroitel'nykh materialov
(for Krestov, Dobryakova, Koshkin, Yevdokimov, Ivanova, Khmelevskiy).
3. Institut betona i zhelezobetona (for Kostochkina).
(Building blocks)

25(2)

SOV/100-59-5-7/14

AUTHOR: Khmelevskiy, V.A., Engineer

TITLE: Mechanization of Surface Dressing of Objects

PERIODICAL: Mekhanizatsiya stroitel'stva, 1959, Nr 5, pp 20-21, (USSR)

ABSTRACT: The article deals with a rotary surface grinding machine which comes as mounted equipment for the machine L-54 including also an electric motor with flexible shaft. The machine has been developed in the NIINSM (Scientific Research Institute of New Building Material) by the author and is intended for surface dressing and finishing of concrete by means of a wire brush, which removes the hardened cement top film from concrete. The brush consists of 6 wire discs which are clamped together on the end of the shaft, the discs come in 2 sizes; 160 mm diameter by 20 mm wide and 100 mm diameter by 13 mm wide. The most effective result has been obtained with concrete having a limestone filler which gives a decorative finish to the surface. Beside dressing concrete blocks and panels, the grinding brush can be used for scraping off old paint, rust etc. from metal trays, pans and parts in general. There are 2 photos and 1 set of diagram.

Card 1/1

GONTAR', A.S., inzh.; GUTMAN, V.M., inzh.; KHMELEVSKIY, V.A., inzh.

Automatic line for machining aluminum ingots. Mekh. i avtom.
proizv. 19 no.10:9-10 0 '65. (MIRA 18:12)

KHMELEVSKIY, V.A.. inzh.

Factory finished wall panels and blocks. Stroim. 6
no.1:34-38 Ja '60. (MIRA 13:5)
(Building blocks)

SVYNKO, I.M.; KIMELEVSKIY, V.A.

Manganese minerals from Sarmatian limestones in the Kremnets
region. Min.sbor. 18 no.2:203-207 '64.

(MIRA 18:5)

1. Pedagogicheskiy institut, Kremnets, Ternopol'skoy oblasti i
Gosudarstvennyy universitet imeni Ivana Franko, L'viv.

LOPOVOK, L., kand.arkhitektury; ORLOV, A., kand.tekhn.nauk; KHMELEVSKIY, V.,
arkhitektor

Problems in the finishing of large-panel buildings. Zhil. stroi.
no. 4:2-7 Ap '61. (MIRA 14:5)
(Building—Details) (Reinforced concrete construction)

KHMELEVSKIY, V., arkhitekt

Factory finishing of exterior wall panels. Zhil. stroi. no.9:
18-19 S '61. (MIRA 14:9)

(Finishes and finishing)
(Walls) (Concrete slabs)

DOBRYAKOVA, Lyudmila Ivanovna, kand. tekhn. nauk; YEVDOKIMOV, Aleksey Aleksandrovich, inzh.; LOPOVOK, Lev Isayevich, kand. arkhitektury; MILOVZOROV, Aleksey Konstantinovich, arkh.; ORLOV, Aleksandr Mikhaylovich, kand. tekhn. nauk; KHMELEVSKIY, Vladimir Aleksandrovich, arkh.; GLEZAROVA, I.L., red.; BOROVNEV, N.K., tekhn. red.

[Industrial finishing of buildings] Industrial'naya ot-delka zdaniy. Moskva, Gosstroizdat, 1963. 106 p. (MIRA 16:11)

(Buildings—Finishing)

ORLOV, A.M., kand. tekhn. nauk; KHMELEVSKIY, V.A., arkhitekt

Mechanization of the processes of finishing panels in the
factory. Mekh. stroi. 18 no.12:8-9 D '61. (MIRA 16:7)

(Finishes and finishing)
(Concrete slabs)

KHMELEVSKIY, V.A., inzh.

Industrialization of panel finishing. Mekh. stroi, 20 no.10:
1-4 0 '63. (MIRA 16:10)

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CIA-RDP86-00513R000722110013-4"

KHMELEVSKIY, V. I.

Sugar Machinery

Eliminate obstacles in the use of electrical equipment. Sakh. prom. 26, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

<div style="float: left; width: 100px; font-size: 2em; font-weight: bold;">CA</div> <div style="float: right; width: 50px; text-align: right;">7</div> <div style="clear: both;"></div> <p style="text-align: center;">Determination of phenanthrene. V. I. Khmel'skii and I. Ya. Pastovskii. <i>Org. Chem. Ind.</i> (U.S.S.R.) 4, 363 (1957). A min. of 15% phenanthrene (I) in crude anthracene can be detd. with an accuracy to 1.5% in 6 hrs. by the improved Williams' method (C. A. 16, 92), by this method I can be completely oxidized to phenanthrenequinone (II), m. 263.5°, free from contaminating I derivatives. To a 0.5-g. sample add 1 g. H_2O (or equiv. amt. of $HClO_4$) and 20 ml. of 100% $AcOH$ and reflux the mixt. for 2.5 hrs. Introduce 10 ml. of satd. $NaHSO_4$ soln., let stand for 5 min., dil. to about 150 ml. and filter. Decomp. the II bisulfate by the addn. of 2% $KMnO_4$ until the pptn. of II just begins, add NH_4OH to a slight alk. reaction, filter the II through a tared filter, wash the ppt. with dil. $(HCO_2H)_2$ to remove any MnO_2 and then with hot H_2O, dry at 105° to a const. wt. and det. as II.</p> <p style="text-align: right;">Chas. Blanc</p>									
<div style="display: flex; justify-content: space-between;"> <div> <p>450-550 METALLURGICAL LITERATURE CLASSIFICATION</p> <p>10000 11000000</p> </div> <div> <p>10000 11000000</p> <p>10000 11000000</p> </div> </div>									

PROCESSES AND EXPERIMENTAL DATA

7

CH

Rapid determination of raw and concentrated anthracene. I. Ya. Postovskii and V. I. Khmolevskii. *J. Applied Chem. (U. S. S. R.)* 10, 730-04 (in German 700) (1937).—Reflux sample (1.0 g.), contg. anthracene, with maleic anhydride (0.5 g.) and xylene (5 cc.) in a flask provided with an air condenser for 25 min. Cool, add 10 cc. of water and dist. off xylene with steam. Titrate the residual soln. with 0.5 N KOH in the presence of phenolphthalein. The percentage of anthracene is $(A - 0.87328C)/B \times 181.7$, where A is the wt. of maleic anhydride, B that of sample, C cc. of KOH used, T titer of KOH. The accuracy of the method is $\pm 0.5\%$, duration 1-1.5 hr. Six references. A. A. Podgorniy

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

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7

CP

A rapid analysis of crude and of enriched anthracene.
 I. Ya. Iustovskii and V. I. Khmelyovskii. *Trudy Ural. Ind. Inst. im. S. M. Kirova* 1938, No. 6, 64 (9; *Khim. Referat. Zhur.* 2, No. 2, 83(1939)).—The method is based on the addn. of maleic anhydride to anthracene. The compound formed can be detd. either directly by the gravimetric method or indirectly by the volumetric titration of uncombined maleic anhydride. To 1 g. of the crude anthracene add 0.5 g. of maleic anhydride and 5 cc. of xylene, boil for 25 min., add 80 cc. of water, remove the xylene with steam, cool the maleic acid (formed at the expense of the emulsification of the excess anhydride), and titrate with a 0.5 N soln. of KOH in the presence of phenolphthalein. The method was tested with artificial mixts of anthracene with carbazole, phenanthrene, fluorene, naphthalene and β -methylanthracene. Of these substances only β -methylanthracene reacts with maleic anhydride. Therefore, in case β -methylanthracene is present a parallel detn. by the method of Selisch should be made. The analysis takes 1-1.5 hrs., and its accuracy is $\pm 0.5\%$.
 W. R. Stein

ASD-51A METALLURGICAL LITERATURE CLASSIFICATION

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ca

New methods for the preparation of the red hydrocarbon rubicene. V. G. Khametovskii and I. Ya. Postovskii. J. Gen. Chem. (U. S. S. R.) 9, 620-4 (1939).—Rubicene, blood-red needles, m. 306°, is prepd. either by heating 3 g. naphthalene with 0.4 g. Mg turnings for about 1 hr. at the boiling temp. (11% yield) or by heating a mixt. of 3 g. m-diphenyl-m-dihydrodihydroxyanthracene (prepd. from anthraquinone), 5 g. AlCl₃ and 2 g. MnO₂, with vigorous agitation, at 100° for 30 min. (4% yield).

Johanna Linsk

1ST AND 2ND DEGREES										3RD AND 4TH DEGREES									
PROCESSES AND PROPERTIES INDEX																			
<p>CA</p> <p>Preparation of rubrene from fluorenone with the aid of metallic calcium. V. I. Kamyshnikov and G. I. Fedorov. <i>J. Gen. Chem. (U.S.S.R.)</i> 1967 38(1039); cf. C. A. 33, 17770. The substitution of Ca for Mg turnings in the method described in an earlier paper produced 15% rubrene. Similar reaction of 10 g. Ph.CO with 2 g. Ca turnings yielded 30% m-diphenylmethane, m. 230°.</p> <p>Chas. Blanc</p> <p>10</p> <p>Lab. Org. Chem, Ural. Industrial Inst. in S.M. Kirov</p>																			
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7

CA

DETERMINATION OF PHENANTHRENE. V. I. Khmel'skiy and I. S. Levin. *Org. Chem. Ind. (U. S. S. R.)* 7, 241 (1940). The method involves the prep. of the quinoxaline deriv. from an aq. soln. of the bisulfite compd. of the quinone obtained by the oxidation of phenanthrene with I_2 . Place 0.5 g. of the sample in a long-neck, 250-ml. round-bottom flask, add 50 ml. of glacial HOAc and 1.2 g. I_2 , (or a corresponding amt. of HOAc). Attach a glass tube (0.1 cm. in diam. and 20 cm. long and reflux for 1.5 hrs. Allow to cool slightly and add to the hot soln. 20 ml. of satd. (about 40%) NaHSO_3 and shake thoroughly. After 5 min. add 50 ml. water, filter through a Buchner funnel and wash with water. Transfer the filtrate to a round-bottom flask, add 0.8 g. o-phenylenediamine-HCl, shake and reflux for 25 min. Allow to cool, filter through a dried and weighed Schott filter No. 2, wash 3 times with water (about 50 ml.), dry at 105° and weigh as azine. Wt. of azine times 0.6337 gives the % of phenanthrene without the correction due to the iodination of the phenanthrene with the I_2 during the oxidation. The correction is made from the curve $y = 1.135x$ where y is the actual content of phenanthrene in % and x is the content obtained from the azine in %. If the sample weighs exactly 0.5 g. then it is simpler to calc. from $a = 144.32b$ where a is actual content of phenanthrene in the mint. in % and b is the wt. of the azine. The method requires 4-5 hrs. and gives an accuracy of 1%. Other products in crude anthracene do not interfere with the detn. of phenanthrene by this method.

B. Z. Kamich

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

Gasometric method for determining carbazole in crude anthracenes. V. I. Khmel'nykh and I. S. Levin. *Org. Chem. Ind.* (U.S.S.R.) 7:308-10(1940).—The method is based on the condensation of carbazole with formaldehyde. Heat a 0.5-g. sample in 10 ml. of glacial HOAc and cool to room temp. Equip the vessel with a two-hole stopper provided with a T-tube and an exhaust tube which is connected to a gasometer. A small tube containing 0.2-0.25 g. of NaNO_2 is attached to the bottom of the T-tube in the vessel above the soln. Pass CO_2 into the vessel for about 10 min., drop the NaNO_2 sample into the soln by means of a glass rod in the T-tube and collect the NO in the gasometer above KOH. Complete decomposition of NaNO_2 takes place in about 30-40 min. The % carbazole (A) is calculated from: $A = (0.4019 \times x \times 100) / (V \times P) \times (273 + t) / S$ where x is wt. of NaNO_2 , V is vol. of NO at room temp., P is barometric pressure in mm., t is room temp., S is wt. of sample and x is % of NaNO_2 in the sample of NaNO_2 . The method was checked with pure and production mixts. of crude anthracenes and showed an accuracy of $\pm 1.5\%$. Analysis takes 1.5 hrs. B. Z. K.

ASAC-51A METALLURGICAL LITERATURE CLASSIFICATION

KNOMELEVSKI, V. I. **7**

CA

Volometric determination of acridine. V. I. Knomelevski and I. I. Orzhinnikova. Org. Chem. 742-1118, 1957, 12, 742-1118. Digest 1 g. of the sample with 5 ml. of 10% KOH at room temp. for about 5 min., add 1 ml. of 10% KOH at room temp. for about 5 min., add 1 g. of NaOH, a few drops of phenolphthalein and 10 to 15 ml. of water from a buret until the indicator becomes intensely colored. Titrate with 0.1 N H₂SO₄ to a colorless end point. If the sample is pure acridine (90-100%) or crude product (50-90%), use 0.2-0.5 g. of the sample. In those cases where the soda, to be analyzed shows acid in alk. reaction to phenolphthalein it should be neutralized in the presence of phenolphthalein to avoid errors. The method requires 15-20 min. and showed an accuracy of $\pm 0.5\%$. H. Z. Kamik.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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10a

PROCEDURES AND PROPERTIES INDEX

The reaction of acrolein with anthracene. A. G. Shabatkin and V. I. Khramov, *J. Gen. Chem. (U. S. S. R.)* 10, 1100-1101 (1940). — When acrolein and anthracene are heated to 130° in a sealed tube in the presence of a little H_2SO_4 , the double bond opens to add in the 9,10-position and give an aldehyde which can be oxidized by $AgOH$ to give 92% of α,β -endo-9,10-dihydroanthracene-9,10-propanoic acid, m. 186-7°. H_2SO_4 stabilizes the acrolein during the reaction. H. M. Leicester

Lab. Org. Chem. Ural Ind. Inst. in S. M. Kirov

ALSO SEE METALLURGICAL LITERATURE CLASSIFICATION

FROM POWER

CLASSIFICATION

10

Preparation of 2-aminothiazole and sulfathiazole. I. Ya. Pustovak, V. I. Khmelnik and N. P. Belayagin. *J. Applied Chem. (U.S.S.R.)* 27, 65-78(1944)(English summary).—The following expl. procedure was devised for the prepn. of sulfathiazole. Com. Et₂O was chlorinated with gentle refluxing and illumination by ultraviolet ray lamps to yield crude (C₂H₅)₂O (d. 1.13-1.14); 830 g. of this was mixed with 225 g. (H₂N)₂CS in 3 voln. H₂O at 25-30°, after which the mixt. was stirred for 1 hr. at 60-6°, treated with charcoal, filtered, and the free base liberated by 40% NaOH; after treatment with dil. NaHSO₄ and crystn. from benzene there was obtained 67-84% 2-aminothiazole (II), m. 67-6°. EtOH was chlorinated in a battery of 6 countercurrent columns connected in series, with cooling (no temps. given); the final product contained 12-15% of chlorinated matter (assumed to be CCl₂CH₂O). This mixt. (C1.) was mixed with 360 g. (H₂N)₂CS in 800 cc. water and refluxed for 2 hrs., after which the EtOH was distd. off and the residue treated with 40% NaOH to yield 70-80% (on thionure) I, m. 67-6° (from benzene). MeCH(OR)₂ (355 g.) was

chlorinated at 47-50° (with cooling) for 8-10 hrs. to yield crude 2-chloroacetal, d. 1.11; this was added to 225 g. (H₂N)₂CS in 450 cc. water at 40° and refluxed for 2 hrs. to yield 80% (on thionure) I. Vinyl iso-Am ether (280 g.) was chlorinated at 43-50° to yield 1,2-dichloroethoxy ether, d. 1.01, 300 g.; this was condensed with 190 g. (H₂N)₂CS as above to yield 72% I. Similarly, the chlorinated vinyl Bu ether yielded 80% I. The base was condensed in pyridine with AcNHCl₂SO₄Cl to yield 70% acetylthiazole, m. 250-5°, which was heated for 1 hr. at 90-8° with 12% NaOH (3 mols. NaOH per 1 mol. of Ac compd.), coustg. an equal amt. of NaCl to inhibit the amide group hydrolysis; 15 min. before the end of the hydrolysis, the mixt. was treated with 2% activated charcoal and 1% NaHSO₄, the mixt., after completion of hydrolysis, being cooled to 5-6° and let stand for several hrs. to yield the hexahydrate of the Na salt of sulfathiazole, which was washed with a little NaCl soln. and crystal. from a small amt. of water; yield, 60% on aminothiazole. The product m. 51°, and after dehydration melts at 260-4°. Free sulfathiazole was obtained from the aq. soln. of the Na salt by addn. of 80% AcOH or CO₂, the latter procedure giving a very pure product, m. 201-3°. The latter heated with the calcd. amt. of 15% NaOH and cooled to 0° gave 90% of the above Na salt hexahydrate.
G. M. Kovalev

4362. METHOD OF INVESTIGATION AND ANALYSIS OF COMPOUNDS OF CRUDE ANTHRACENE AND OTHER HIGH BOILING FRACTIONS OF COAL TAR. Khmelovskii, V I and Postovskii, I Ia. (J applied chem (U.S.S.R.) 1944, 17, 463-70 (English Summary) chem. abstr. 1945, 39, 3651). The authors present rapid quant. methods for detn. of a no. of polycyclic compounds in coal tar. Anthracene is detd. by condensation with maleic anhydride; phenanthracene, by oxidation to the quinone, followed by condensation with $O-(NH_2)_2C_6H_4$; carbazole, by reaction with HNO_2 ; and acridine, by its addn. compd. with $NaHSO_3$.

LIST AND THE OBJECT		SUBJECTS AND PROPERTIES INDEX	
<p><i>ca</i></p> <p>2-Aminothiazole. V. I. Kharkevskii, I. Ya. Kostovskii, and N. P. Bednyagina. U.S.S.R. 64,732, May 31, 1945. Vinyl ethers are chlorinated at 10-70°. The chlorination product without being sepd. is condensed with thiourea, and from the condensation product 2-aminothiazole is sepd. either as a base or as a HCl salt. M. Hosh</p>		<p>10</p>	
<p>ASAC-54 METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>FROM CIVILIAN</p>		<p>FROM GOVERN</p>	
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Ca

PROCESSING AND PROPERTIES INDEX

10

2-Aminothiazole and its hydrochloride. N. P. Bed-
nyagina, V. I. Khmel'nitskiy and I. Ya. Postovskii. U.S.S.R.
64,120, Apr. 30, 1968. Addn. to U.S.S.R. 64,732 (C.A.
60, 5776). In the chlorination of alkyl vinylates, to the
latter are added difficulty chlorinatable org. bases, e.g.,
pyridine. This addn. stabilizes the alkyl vinylates and
causes the chlorination process to proceed smoothly and
give increased yields of dichloroethyl alkylates.
M. Hough

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

EXPOSURE INFORMATION

EXPOSURE DATE

EXPOSURE TIME

EXPOSURE LOCATION

EXPOSURE METHOD

EXPOSURE RESULTS

EXPOSURE COMMENTS

Khmelevskiy, V. I.

2
✓ Synthesis of sulfazine from propargyl alcohol. V. I.
Khmelevskiy. *Med. Prom. S.S.S.R.*, 1955, No. 2, 21-6.

CH
The synthesis of sulfazine was improved by devising a more economical synthesis of 2-aminopyrimidine (Ia) by condensation of HC CCHO (I) with guanidine salts. I was obtained by oxidation of HC CCH₂OH (II) (from C₆H₅ and CH₃O). The yield of I, based on CH₃O, was 60-70%. The catalyst in the condensation of (CH₃O)₂ and C₆H₅ is Cu acetanilide. II is oxidized to the I with CrO₃ in the presence of H₂SO₄. I is condensed with guanidine-HNO₃ in abs. ethanol, acid. with HCl, at 6-8°. The yield of Ia is 60%. In hydrochloride is recommended as such in the condensation with p-AcNHCH₂SO₂Cl to yield sulfazine.
J. A. Stekol

Uncl. Fil., all-Union Sci. Res. Chemical-Pharmaceutical Inst.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110013-4

KHMELEVSKIY, V. I.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110013-4"

KHMELEVSKIY, V. I.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 923

Author: Khmelevskiy, V. I., and Durnitsyna, O. I.

Institution: None *Ural Affil, A-4 Sci Res. Chem. Pharm. Inst. im. Ordzhonikidze*

Title: On the Structure of the Triacetyl Derivative of 4,5-Diaminouracil.

Original

Periodical: Zh. obshch. khimii, 1956, Vol 26, No 3, 755-760

Abstract: It is shown that the triacetyl derivative of 4,5-diaminouracil (I), an intermediate product in the synthesis of 8-methylxanthine (II) from uric acid (III) by the refluxing of III in $(\text{CH}_3\text{CO})_2\text{O}$, has the structure 4-acetylamino-5-di(acetylamino)-uracil and not that of the diacetyl derivative of 2,6-dioxo-8-oxy-8-methylhexahydropurine, as claimed previously (Biltz and Schmidt, Liebigs Ann. Chem., 1923, 431, 70). I was obtained from III (106 gms of 95% III are refluxed with 300 ml $(\text{CH}_3\text{CO})_2\text{O}$ in 100 ml pyridine for 5-5.5 hours until the evolution of CO_2 is completed; the precipitated I is washed with ethylene chloride and absolute ether, and rapidly crystallized in

Card 1/2

SECRET
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HUGH

KHMELEVSKIY, V.I.

Use of uric acid in the production of drugs. Med.prom. 12
no.4:11-14 Ap '58. (MIRA 11:5)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-
farmatsevticheskogo instituta imeni S. Ordzhonikidze.
(URIC ACID)

AUTHORS: Khmelevskiy, V. I., Abramova, Ye. I. SOV/79-28-7-55/64

TITLE: The Synthesis of Theophylline and Caffeine From Urea and Sodiumcyano Acetate (Sintez teofillina i kofeina iz mocheviny i tsianuksusnokislogo natriya)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7, pp. 1970-1974 (USSR)

ABSTRACT: In the attempts of synthesizing theophylline and caffeine the methylation process of the formyl derivative of 4,5-diaminouracile (Formula V) was investigated in detail, with the latter yielding almost quantitatively the compound (VI) on the action of 2 moles of dimethyl sulfate. This made it possible to synthesize theophylline and caffeine according to the scheme given. As may be seen the inexpensive urea and the sodium cyano acetate were used as initial products. In the synthesis of caffeine (VIII) the theophylline (VII) becomes an intermediate. In solving the given problem the author carried out besides the mentioned methylation reaction also the syntheses of various intermediates obtained in the synthesis of theophylline; this resulted in better yields and properties. The treatment of (II) with nitrous acid was carried out

Card 1/3

The Synthesis of Theophylline and Caffeine From Urea . SOV/79-28-7-55/64
and Sodiumcyano Acetate

according to reference 12. The first intermediate (I) was produced according to Hepner, Frenkenberg (Gepner, Frenkenberg) (Ref 3). The cyclization of (I) into (II) was effected by soda lye, a method supplying better yields than the known methods (Refs 1,5,12). The reduction of aminovialuric acid the 4,5-diamino uracile was carried out with sodium hydrosulfite according to Bogert, Davidson (Bogert, Davidson) (Ref 13). All this permitted to increase the yield of theophylline and caffeine to 50% (calculated on the basis of sodium cyano acetate). In the methylation of the sodium salt of theophylline the caffeine was obtained in a quantity of 94-95%. There are 15 references, 7 of which are Soviet.

ASSOCIATION: Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze (Ural Branch of the All-Union Scientific Chemical and Pharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED: April 22, 1957

Card 2/3

Synthesis of Theophylline and Caffeine From Urea and Sodium Cyanacetate 397/53-22-7-12/64

1. Caffeines--Synthesis
2. Urea derivatives
3. Urea--Chemical reactions
4. Sodiumcyano acetates--Chemical reactions

TITLE: Theophylline

Card 3/3

AUTHORS: Khmelevskiy, V. I., Abramova, Ye. I. SOV/79-28-7-56/64
Varyukhina, L. V.

TITLE: The Synthesis of Theophylline and Caffeine From Uric Acid
(Polucheniye teofillina i kofeina iz mochevoy kisloty)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7, pp. 1974-
1979 (USSR)

ABSTRACT: The methods of the synthesis of caffeine (VI) and theophylline from uric acid (I) described in publications (Refs 1 - 15) are more or less all deficient. However, this acid is of great importance for the industrial synthesis of medicaments of the purine series, as it is easily accessible. The authors proceeded from 4,5-diacetylaminouracile (II) according to ~~Reference 17~~. It converts to compound (VII) or (VIII) with alkali liquor. The methods of saponification (Refs 13, 18 and 19) known hitherto are practically not suited for use because of the low-quality final products resulting from them. A more exact investigation of the saponification of (II) showed that the compound (XII) is obtained in a yield of 93-95% on heating it with aqueous ammonia solution. When (II) is heated with soda lye the 4,5-diaminouracile is separated from the reaction mass as sulfate

Card 1/3

The Synthesis of Theophylline and Caffeine From
Uric Acid

SOV/79-28-1-56/64

(VIII) after its acidification with sulfuric acid. In the case of its heating with aqueous sodium formate solution and a small amount of formic acid this sulfate converts to the formyl derivative of the 4,5-diaminouracile (III) which is converted to the sodium salt of theophylline after methylation with dimethylsulfate and a subsequent cyclization in alkaline medium (Ref 21). The whole synthesis of theophylline and caffeine from uric acid is shown in the scheme, by means of which a yield of 45-46% was obtained. The yield of caffeine increases to 90-94% when the theophylline is methylated. There are 23 references, 15 of which are Soviet.

ASSOCIATION: Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze (Ural Branch of the All-Union Chemical and Pharmaceutical Scientific Research Institute imeni S. Ordzhonikidze)

SUBMITTED: April 22, 1957

Card 2/3

The Synthesis of Theophylline and Caffeine From
Uric Acid

SOV/79-22-7-56/84

1. Caffeines--Synthesis 2. Uric acid--Chemical reactions 3. Uric acid
--Applications

TITLE: Theophylline

CR24 1/3

KHMELEVSKIY, V.I.; KOZELLO, I.A.; GASHEVA, A.Ya.

Synthesis of 2-aminopyrimidine. Report no.1: Condensation of propargyl aldehyde with dicyandiamide. Med.prom. 13 no.12:18-20 1959.

(MIRA 13:4)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordshonikidze.

(GUANIDINE)

(PYRIMIDINE)

(PROPIOLALDEHYDE)

KHMELEVSKIY, V.I.; KOZELLO, I.A.; GASHOVA, A.Ya.

Synthesis of 2-aminopyrimidine. Report No.2: Condensation of
guanidine with propargyl alcohol in the presence of oxidants.
Med.prom. 14 no.1:46-48 Ja '60. (MIRA 13:5)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo
khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze.
(PYRANIDINE)

KOZELLO, I.A.; KHMELEVSKIY, V.I.; GASHEVA, A.Ya.

Synthesis of 2-aminopyrimidine. Report No.2: Use of diocyanamide
for condensation with propargyl alcohol in the presence of oxidants.
Med. prom. 14 no.9:42-43 S '60. (MIRA 13:9)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-
farmatsevticheskogo instituta im. S. Ordzhonikidze.
(PYRIMIDINE)

ABRAMOVA, Ye.I.; KHMELEVSKIY, V.I.; SHNEYDERMAN, Ya.L.

Means for improving theophylline production methods. Med. prom. 15
no.8:31-34 Ag '61. (MIRA 14:12)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo khimiko-
farmatsevticheskogo instituta imeni S. Ordzhonikidze i Sverdlovskiy
khimiko-farmatsevticheskiy zavod.
(THEOPHYLLINE)

KHMELEVSKIY, V.I.

Mechanism of interaction between uric acid and acetic anhydride.
Zhur.ob.khim. 31 no.9:3123-3129 S '61. (MIRA 14:9)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo
khimikofarmatsevticheskogo instituta imeni S.Ordzhonikidze.
(Uric acid) (Acetic anhydride)

KHMELEVSKIY, V.I.; KUSHKIN, V.V.; NOVIKOVA, A.P.; GETSOVA, I.N.

Antifungal compounds. Part 1: Dialkylaminoalkoxydiphenyls and
fluorenones. Zhur.org.khim. 1 no.2:262-263 F '65.

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo
khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze. (MIRA 18:4)

L 32175-66 EWT(m)/EWP(e) WH

ACC NR: AP6012179 (A)

SOURCE CODE: UR/0413/66/000/007/0124/0124

INVENTOR: Khmelevskiy, V. I.

ORG: none

TITLE: Optical glass manufacture. Class 32, No. 154647

SOURCE: Izobreteniya, promshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 124

TOPIC TAGS: optical glass, glass manufacture

ABSTRACT: An Author Certificate has been issued describing a method of making glass in pot furnaces by stirring the glass mass with ceramic agitation prior to clearing. To prevent the formation of nodal or combed waviness in the glass from a protective coating formed on the agitator scoop, the pots are placed into the furnace for finishing at 900-1000C. Ceramic agitators are installed in the immediate vicinity of the pots or somewhat above them and are held there at 1500C until the formation of the protective coating on the scoop. Prior to the beginning of clearing, the agitators are mounted on pins by forms and secured to the pots, after which the glass mass is stirred.

SUB CODE: 11/ SUBM DATE: 09Nov61

Card 1/1 *LD*

S/169/61/000/011/023/065
D228/D304

AUTHOR: Khmelevskiy, V.K.

TITLE: Radiowave X-raying of rocks situated between mine workings

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 29, abstract 11A257 (Vestn. Mosk. un-ta, Ser. biol., pochvoved, geol., geogr., no. 3, 1959, 191 - 198)

TEXT: The applicability of the method of radiowave X-raying for studying the degree of the water-supply and karsting of limestones was investigated. When the electric properties of rocks differ little, and if there are also no studied inclusions of conspicuous 'shadows' in them, the problem has to be solved by quantitatively interpreting the results - by determining the coefficient of absorption (b), or by calculating the electric and magnetic permeability (ϵ and μ) and the specific electric resistance (ρ). The magnitude of b may be determined from the results of measurements at two points of the sum of the spatial and surface waves propagated along

Card 1/2

Radiowave X-raying of rocks ...

S/169/61/000/011/023/065
D228/D304

the "generator" working, or from the X-raying data for two rays of a differing length, according to which the electric properties may be considered to be identical. When the value of the coefficient b is known, even if only for one area, its value may be determined for all rays, and, knowing the magnitude of absorption on the two frequencies, the values of ρ and ϵ may be calculated. The values of b obtained by these methods are apparent. However, the changes in the apparent values of the coefficient b at different points characterize the changes in the electrical properties of the X-rayed rocks which solves the geologic problem. The suggested method of interpretation was used for investigating limestones in the shafts of bauxite deposits and disclosed the large changes in the values of the coefficient b , ρ and ϵ for monolithic limestones, decayed limestones, and those with an abundant supply of water. [Abstractor's notes: Complete translation]. ✓

Card 2/2

PINUS, Emil'-Yakov Ruvimovich; KHMELEVSKIY, Valentin Nikoleyevich;
GANYUSHIN, A.I., red.; NIKOLAYEVA, L.N., tekhn. red.

[Hnadbook for the builder of cement and concrete pavements]
Pamiatka rabochemu na stroitel'stve tsementobetonnykh po-
krytii. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo
transporta i shosseinykh dorog RSFSR, 1960. 39 p.
(MIRA 15:1)

(Road construction—Safety measures)

KHMELEVSKIY, V.M. [Khmelievs'kiy, V.M.], zaslushennyy vrach USSR, doktor
med.nauk, prof.

Effect of sodium bromide and caffeine on the course of fetal asphyxia
in utero; experimental study. Ped., akus. i gin. 19 no.5:51-58 '57.
(MIRA 13:1)

1. Kafedra akusherstva i ginekologii (sav. - prof. V.M. Khmelevskiy)
Kiyevskogo instituta usovershenstvovaniya vrachev (dir. - zasluzh.
deyatel' nauki prof. I.I. Kal'chenko).
(SODIUM BROMIDE) (CAFFEINE) (ASPHYXIA)

KHMELEVSKIY, V.M. [Khmelevsk'kiy, V.M.], prof.

"Erythroblastosis fetalis" by L.V. Tymoshenko. Reviewed by V.M.
Khmelievsk'kiy. Ped., akush. i gin. 19 no.5:63 '57. (MIRA 13:1)
(ERYTHROBLASTOSIS FETALIS) (TYMOSHENKO, L.V.)

KHMELEVSKIY, V.M. [Khmelievs'kiy, V.M.], doktor med.nauk, prof., zasluzhenny
vrach USSR

Effect of vitamin P on the course of fetal asphyxiation in utero.
Ped., akush. i gin. 20 no.2:42-46 '58. (MIRA 13:1)

1. Kafedra akusherstva i ginekologii (zav. - prof. V.M. Khmelavskiy)
Kiyevskogo instituta usovershenstvovaniya vrachey (direktor - dots.
V.D. Bratus').

(VITAMINS--P)

(ASPHYXIA)

LEVITSKIY, Yevgeniy Fedorovich; PINUS, Emil' Ruvimovich; KAMELEVSKIY, Valentin Nikolayevich; GANYUSHIN, A.I., red.; NIKOLAYEVA, L.N.,
tekhn. red.

[Modern methods of mechanization in the construction of concrete pavements] Sovremennye sredstva mekhanizatsii na stroitel'stve betonnykh pokrytii. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'.. nogo transp. i shosseinykh dorog RSFSR, 1961. 82 p. (MIRA 14:9)
(Pavements, Concrete)

8(5)

PHASE I BOOK EXPLOITATION

80V/2907

Khmelevskiy, Viktor Samuilovich, Engineer

Naladka elektropriroda (Adjustment of the Electric Drive) Moscow,
Gosenergoizdat, 1958. 143 p. 31,000 copies printed.

Ed.: K.D. Kofman; Tech. Ed.: N.I. Borunov.

PURPOSE: The book is intended for technicians whose duty is to adjust and to test the equipment of various electric drives.

COVERAGE: The book describes practical methods of adjusting electric drives when putting them into operation. The author analyzes the problems of checking the primary and secondary circuits of electric-drive systems, adjustment of relay protection of synchronous and induction motors, electric drives with induction and synchronous motors and with d-c machines. Safety measures in doing adjustment work are also discussed. There are twenty-one references, all Soviet. No personalities are mentioned.

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AVAILABLE: Library of Congress (TK4058.K5)

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JP/jb
1-16-60

KHMELEVSKIY, V.S., inzh.

Application of the theoretical principles of electrical engineering in the work of an industrial engineer. Elektrichestvo no.10: 80 0 '63. (MIRA 16:11)

1. Novosibirskiy spetsial'nyy naladochno-montazhnyy uchastok tresta "Sibelektromontazh".

KHMELEVSKIY, V.S.; NAYFEL'D, M.R.

About the term "equipment grounding." Prom. energ. 15 no.9:37-39
S '60. (MIRA 13:10)

1. Novosibirskoye otdeleniye Gosudarstvennogo proyektного instituta
"Elektroproyekt" (for Khmelevskiy). 2. Trast "TSentroelektromontash"
(for Nayfel'd).
(Electric engineering--Terminology)

KHMELEVSKIY, V.S.

Hazard classification of areas in coal preparation and
transportation enterprises. Prom.energ. 16 no.7:45-46
Jl '61. (MIRA 15:1)
(Industrial safety)
(Coal—Transportation) (Coal preparation plants)

KHMELEVSKIY, V.S. (Novosibirsk)

Reliability of electric motors. Elektrichestvo no. 11:84-85
N 164.

(MIRA 18:2)

Kh MELEVSKIY, V.V.

PLASTIC BOOK EXPLOITATION

508/1596

Москва в 1917 году. Издание 1-е. М.: Издательство "Искусство", 1917. 128 стр.

Y. E. Derzhinskaya

Автоматическое копирование - средство комплексной автоматизации производства. (Roller-Trafer-Facine Lines a Means of Full Automation of Production) Moscow, Mashiz, 1960. 221 p. 10,000 copies printed.

Ed.: L. K. Kosbikina; Ed. of Publishing House: I. Vasil'yeva; Tech.
Ed.: G. V. Smirnova; Managing Ed. for Literature on Metalworking
and Machine-Tool Making: V. I. Mitin, Engineer.

PURPOSE: The book is intended for technical personnel in the machinery industry.

CONTENTS: This collection of articles explains the principles of full automation based on the use of rotary transfer machines in various industries. The rotary operational transfer machines used for ball processing are discussed, and also the special power equipment and controllers for these machines and (transfer) lines. In parentheses are mentioned. There are no references.

Koshka, L. M. Basic Problems in the Full Automation of Product Manufacture

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Modetoxor T. A. Installation and Working Principle of Motors for Inspection Operations

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AVAILABLE: Library of Congress (TJ1139.M6)

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TX/DMH/OS
4/24/61

KHAELEVSKIY, Y. M.

(7)

1st European Congress of Anaesthesiology, 3-7 Sep 62, Vienna

ABSTRACTS

- RYABOV, G. A. Principles of Management of the Body Functions in Superficial and
Profound Hypothermia in Children with Congenital Heart Disease
- KOROLUK
KOVANEV, V. A. (Interaction of Muscular Relaxants and Corticosteroids in the Modern
KHAELEVSKIY, Y. M. Anaesthesia for the Operations on the Heart
- ZOLNIKOV, S. M. Some Problems of Anaesthesia for Children with Congenital Heart Disease
ROSLAVLEVA, N. G. Operated Upon with the Help of Extracorporeal Circulation
- GEVORKYAN, I. S. Arterial Anaesthesia as a Sort of Local Anaesthesia
- SNOLNIKOV, V. P. The Shane Effect and Pauling's Theory of Anaesthesia

KOVANEV, V.A.; KHMELEVSKIY, Ya.M.

Effect of anesthetics and some hemodynamic disorders during anesthesia on the neuromuscular transfer of excitation and the action of muscle relaxants. Vest. AMN SSSR no.4:78-86 '65. (MIRA 18:10)

1. Institut serdechno-sosudistoy khirurgii AMN SSSR, Moskva.

KOVANEV, V. A.; KHMELEVSKIY, Ya. M.

"The influence of different anesthetic substances on neuromuscular transmission and its interaction with the non-depolarizing myorelaxants."

report submitted for 3rd World Cong of Anesthesiology, Sao- Paulo, Brazil, 20-26 Sep 64.

Inst for Cardiovascular Surgery, Acad Med Sci USSR, Moscow.

KOVANEV, V. A.; KHEMLEVSKIY, Ya. M.

Induction barbiturate anesthesia in combination with adrenocortical hormones (glucocorticoids) in cardiac operations. Eksper. khir. i anest. no.2:78-83 '62. (MIRA 15:6)

1. Iz Instituta serdечно-sosudistoy khirurgii (dir. - prof. S. A. Kolesnikov, nauchnyy rukovoditel' - akad. A. N. Bakulev) AMN SSSR.

(HEART—SURGERY) (ADRENOCORTICAL HORMONES)
(BARBITURATES)

KOVANEV, V.A.; KHMELEVSKIY, Ya.M.

Decurarization in cardiovascular diseases. Ekoper. khir. i ane t.
7 no.4:83-89 JI-Ag '62. (MIRA 17:5)

1. Iz laboratorii anesteziologii (zav. - dotsent Ye.A.Damir)
Instituta serdechno-sosudistoy khirurgii (dir. - prof.
S.A.Kolesnikov; nauchnyy rukovoditel' - akademik A.N.Bakulov)
AMN SSSR.